

An
Inaugural Essay
on
Rheumatism,
submitted
To the Provost and Medical Faculty
of
The University of Pennsylvania,
for
The degree of M. D.
by
Robert P. Clarke
of
Virginia.
On the 11th
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March 9th 1822

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Rheumatism.

Rheumatism is defined by Dr. Bullen, a disease produced by an external and evident cause, accompanied with pyrexia and pain of the joints, following the course of the muscles. He divides it into acute and chronic. The former known by pain and pyrexia, the latter by languor and rigidity of the joints. Doctor Chapman thinks it would be better to divide it into acute and chronic. The ancients were in the habit of calling all inflammatory affections of the joints arthritic, which certainly was very incorrect, as these affections were easily distinguished from each other by proper investigation. Wallerius is the first author that treated of this disease separately, his work appeared in 1642. Before him it was treated in the same manner as gout, which disease is certainly very different from Rheumatism. The former is always of gastric origin, whilst the latter the Stomach is only secondarily affected. Gout likewise attacks the small joints, and Rheumatism the large ones, such as the shoulder,

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Now and then, very often it attacks the ankles and wrists. Those individuals that are liable to gout, are not that lead an indolent and luxurious life, particularly the rich, while the poor that labour and expose themselves to the vicissitudes of the weather, are the subjects of Rheumatism. This disease occurs often in cold than in warm climates, and in the Spring and Autumn than in any other season of the year. The cause of its frequent appearance in those seasons is, that the transitions from heat to cold are more frequent and sudden than in winter and summer; sometimes, though rarely, it makes its appearance in summer, the season of which is the transition from heat to cold, are very sudden. Rheumatism seldom attacks young people, the usual period of its appearance is from the age of puberty to that of thirty five. Doctor Caldwell says that he has seen it in the very young, and in people far advanced in years. Doctor Chapman has seen it attack very young people, and the symptoms were the same with Hydrocephalus. This disease sometimes attacks but one part of the body, when it attacks

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more than one part, it comes on with a chill, succeeded immediately by other symptoms of pyrexia, such as a frequent, full and hard pulse; sometimes the pyrexia precedes the pain, this is not often the case says Dr. Goldswell. When no pyrexia is present the pain is confined to one joint, but when there is much pyrexia it affects many joints at the same time, increasing from one joint, abating in one, and becoming more violent in the other. The fever attending the disease has considerable exacerbation in the evening, and becomes more violent during the night, a consequence of the body being wrapped up more closely; a joint after being affected for sometime, becomes red, swollen and painful to the touch; sometimes as soon as the swelling is perceived the pain is alleviated, this is not invariably the case. In the commencement the urine is high coloured without depositing any sediment, but as the disease advances, and as the pyrexia has more considerable remissions the urine then deposits a whitish sediment, this is not critical as the disease

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Stal. The fibrous texture of the body may be affected by the true seat of Rheumatism, though the tendinous structure is the part most commonly affected, very often the ligaments subjacent to the joints are affected; the bursæ mucosæ are more liable to it, than the ligaments says Scudamore. Doctor Barnard Smith, who wrote a dissertation on inflammation says that, that Rheumatism is an inflammation of the muscular fiber. Scudamore says that this definition is too limited if not erroneous, for if they were inflamed, there would be a considerable degree of pain and swelling in them, which is never seen, but is always to be observed in the tendons and bursal structure. It would sometimes appear from the dry scalded gain that the patient complains of, that it was seated in the periosteum; we sometimes meet with it in the nervous structure, the nervosa osseus is a true example of it. The serous membranes are likewise attacked with Rheumatism; Scudamore says, he has seen

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attack the dura mater and its contiguous membranes.
David Dundaff mentions, that he has seen seven cases
where it attacked the heart, all of which proved fatal ✓
but one, which was owing to a small, and vegetable &
soft. Upon dissection the hearts of all were enlarged.
Doctor Chapman observed in his lectures, that he
had seen it attack the cuts, lungs, stomach and
kidneys.

Symptoms. The symptoms of acute Rheumatism are
very uniform, they are nearly the same as those of
common inflammation; the attack is ushered in by cold
sweats, with successive flushings of the face, a paroxysm
heat, aversion to food, general lassitude of the whole
body, with a depression of spirits. The local evidence
or symptoms by which we distinguish the disease,
comes in in about twenty four hours afterwards; in the
first attack the lower limbs are chosen as the seat
of the complaint, particularly the knees. There is a
great determination of blood to the joints which
makes them appear livid, sometimes the inflam-

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motion appears only in patches, the joint is generally swollen with much pain, the pain is said to be similar to that produced by the gnawing of a dog. After this a sympathetic fever arises of the inflammatory type, denoted by a hard and frequent pulse, great heat of the surface, dark incrusted tongue, constipated state of the bowels, excessive thirst, pain in the head, with a tendency to delirium. In the course of the disease irregular perspiration is joined with irregular perspiration, this is supposed to be an effort of nature to afford relief, but it is seldom copious enough to remove pain or prove fatal.

Caused. An hereditary structure may be defined as a predisposing cause of Rheumatism. It is obvious that this inference can only be drawn from general reasoning, and not from demonstration; we meet with instances in which there is a strong predisposition to the disease, in the same family. Perhaps a similarity of habits &c clothing, temperament and exposure may favour the position advanced. Age: The young are exempt

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both from acute and chronic Rheumatism, except
in a few instances; any thing that debilitates the
vindinous, ligamentous, or nervous structure, predis-
poses to Rheumatism; a continued fever by the de-
bility it produces, often lays the foundation; strains
and contusions, likewise produce partial Rhuma-
tism, either the acute or chronic, but often the latter.
See: Tiba see it indiscriminately liable to this disease,
but from a number of comparisons drawn, the male
is more liable to it, from their being more exposed
to cold and damp weather.

Exciting Causes.

Cold applied to the body either through the medium
of a dampcold air, alone, or both combined, appears
to be the only exciting cause of Rheumatism.

Treatment: In the treatment of Acute Rheumatism
the remedy that first calls our attention is Benwoodin,
which cannot be substituted, and if not prescribed
all other medicines avail nothing to the patient.
Sydenham mentions in his essay on Rheumatism,

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that venesection is the principal remedy, his reason for saying so, is from the sezy appearance that the blood presents after venesection. Sir John Ringle in his treatise on the diseases of the army mentions the frequency of acute Rheumatism, and the very great advantage that he derived from copious and repeated bleedings. He says, that it is almost impossible to obtain a cure without the loss of a great quantity of blood, for he observes that the patients attacked with Rheumatism are generally of a plethoric habit, and bear bleeding better in this disease than any other. Doctor Bulwer observes, on the practice of physic, that bleeding is the principal remedy, which should be copious, and repeated in proportion to the frequency, fulness and hardness of the pulse. He however observes, that some caution is to be observed, for copious and repeated bleedings sometimes produce chronic Rheumatism. But Doctor Caldwell in his annotations on Bulwers first lines, remarks that it is oftener produced by a deficiency than an excess of

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remission. The opinion of the latter is no doubt cor-
rect. Emetics have been highly recommended by some
Physicians, especially by Doctor Waygaarth, who was
of the opinion that in the commencement of acute
Rheumatism, the cure should be commenced by clean-
ing the alimentary canal with Tartarised Antimony,
afterwards he administered Peruvian Bark with
unrivalled success. It is the opinion of Doctor Chapman
that emetics are only serviceable where the disease is
connected with intermittent fevers, or when the stomach
is in a depraved condition. As to bark, Doctor Chapman
thinks that it may be useful under proper limita-
tions, but prefers administering it in the chronic
form of the disease. Sudanmore observes, that when
given as Waygaarth recommends, it invariably proves
injurious by producing congestion in the alimentary
canal, but may be useful where arterial action is
subdued, or when there is some remission in the
disease. Cathartics, are of infinite service in this
affection. The mode of diminishing arterial action,

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of the way of the alimentary canal is very pernicious thus, as well as in all inflammatory affections, by diminishing arterial action, subduing inflammation, and exciting the absorbers to an increased action. The cathartics administered, should be calomel and jalap; Doctor Chapman prefers them to all others. Diaphoretics, if administered in the early stage of the disease, before arterial action is subdued, will always prove injurious by increasing excitement. But after there has been necessary depletion, they are of infinite advantage, by determining to the surface and lessening the action of the system. It is best to commence with the mild diaphoretic, such as the vapour powders, afterwards with the more stimulating as Dover's powder, Eupatorium perfoliatum, Asclepias decumbens, the vapour bath may likewise be used. Dianthus, the Chimaphilla umbellata may be used with considerable advantage, when given after arterial action is diminished. Opium has been very highly recommended by some Physicians, they say

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that it cuts short the disease; Doctor Chapman says,
the only case in which it is applicable is in weak and
inflatable habits, here he observes, it acts with consider-
able advantage, but in patients of a plethoric and
robust constitution, it always proves injurious and
should not be given. After resorting to the preceding
articles, we may with great propriety as well as a
great prospect, of success, recur to Mercury in order to
produce a syphilitism to be effectual, it must be continued
for some time. Local Remedies: In most cases
there is much pain and inflammation of the joints,
which are to be relieved by applications directed
to the parts; Some physicians recommend ice to be
applied to the part. This practice, Doctor Chapman
thinks incorrect; We should apply cups and leeches
to the joint, they are very effectual by diminishing
the pain and inflammation, after the applications
of the former remedies; blisters should be applied,
they are very useful by the evacuation they produce.
A very excellent application consists of one part,

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camphorated mixture and two parts of Alcohol.
A flannel roller has been highly recommended by some
Physicians, particularly by Doctor Balfoord he likewise
commends perussion. Doctor Chapman thinks this
incorrect, and that no utility would arise from it;
the flannel bandage should be tightly bound around
the part, the manner that it acts is by supporting
the joint, and preventing the free motion of the
muscles. Rheumatism sometimes attacks the internal
parts, when it does the treatment should consist
in depleting at the commencement, afterwards of
naphthaëtes. When it attacks the intestines, the symp-
toms are the same as in dysentery. Doctor Chapman
mentioned in his lectures, that he had seen several
cases, where it attacked the oculi. His treatment
consisted of naphthaëtes, such as Laudanum, Senna
powders, warm bath with saline purges; different
parts of the body are sometimes affected with this
disease, which have had ointments applied by authority
according to the part that was affected. It is a very

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custom of the ancient physicians, to apply different names to every joint. The modern physicians have not become proselytes, they have different names only for the muscles and ligaments of the hip joint, and likewise when it attacks the muscles contiguous to the lumbar vertebra, the latter is known by the name of lumbago, the former by sciatica or cæchias. Lumbago: The pain is very acute, shooting down the arm, and comes on sometimes very suddenly.

Treatment: Blood should be drawn from the general circulation, and likewise topically by the application of cups and leeches; vesicating applications are very serviceable, a very useful application consists of one table spoonful of cayenne pepper and two of brandy. This disease is said to have been cured by a mustard red plaster to the feet.

Sciatica: This is a rheumatic affection of the muscles, tendons, and ligaments, contiguous to the hip. The symptoms are great pain in the lumbar region and inflammation of the joint, very often

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Treatment: In a recent case of sciatica, where there is great pain and inflammation, we must apply cold and leeches, and likewise draw blood from the general circulation; vesicating applications are equally serviceable in this as in the former affection. Indeed the treatment is the same, but emetics are of very great utility in this disease, when it partakes of the chronic form, chronic medicines must be used to, particularly stimulating applications, such as Cayenne pepper and horndy, Simpkins Anemisia, Camphor, brine, Electricity, vapour bath, &c. combined with oil. The reason why Stimulating applications are so useful in this form of the disease, is by diminishing atony, and restoring proper action to the joint. Sudarvanee observes, in his essay on Rheumatism, that he has known very great advantage derived from applying oil sciatica. He says, that it is the common practice among the Physicians of

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Both resort to this remedy. Begin with articles of the lightest and most digestible nature. They should be principally on tea, gruel, sub-acid fruits as oranges. Behave we are told, when he labored under the most exquisite tortures of acute rheumatism, supported himself twelve days on milk whey. The return to animal food, should be very gradual, for when there is the least excitement remaining, a small quantity of animal food may produce a relapse. Scudamore says, that he has seen it produced by a meal of chicken.

Convalescence: The use of bark, conjoin'd with any of the mineral acids, particularly the acetic sulphuric is highly essential in a state of convalescence. The stiffness and pain of the joints, which succeed acute rheumatism, is to be removed by friction and exercise. Scudamore mentions in his essay on rheumatism, that when the weather would permit, he has discolse

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his patients to walk several miles in the day; for this he says the most beneficial results succeeded. Prophylactic treatment: When we reflect on the causes that excite this disease, and that accidental or constitutional relaxation of a part, or the whole body is the most frequent state of predisposition. It is evident that those who are subject to this disease, should avoid incisions of temperature, should never suffer their systems to be relaxed by close confinement in their chamber. As nothing is better calculated to produce a relapse, than leaving a heated room, and exposing themselves to a cold & damp atmosphere; a medium should invariably be observed in the prophylaxis, when the atmosphere is pure and dry, the patient may exercise themselves by walking or riding, the former is preferable greatly to the latter, it should not be carried so far as to debilitate the system. The body should be well protected against the

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vicissitudes of temperature, it should be closely
wrapped with flannel, the feet should likewise
be well covered and the patient should avoid
getting them wet, for no part of the system
affords a more convenient inlet for disease.
Intemperance in eating and drinking should
be avoided, as they tend greatly to debilitate
the constitution, and lay the foundation for
chronic rheumatism which is very difficult
to manage, and proves a source of great
pain and inquietude to the patient.

Dr.

Ottawa

March 19th 1852.